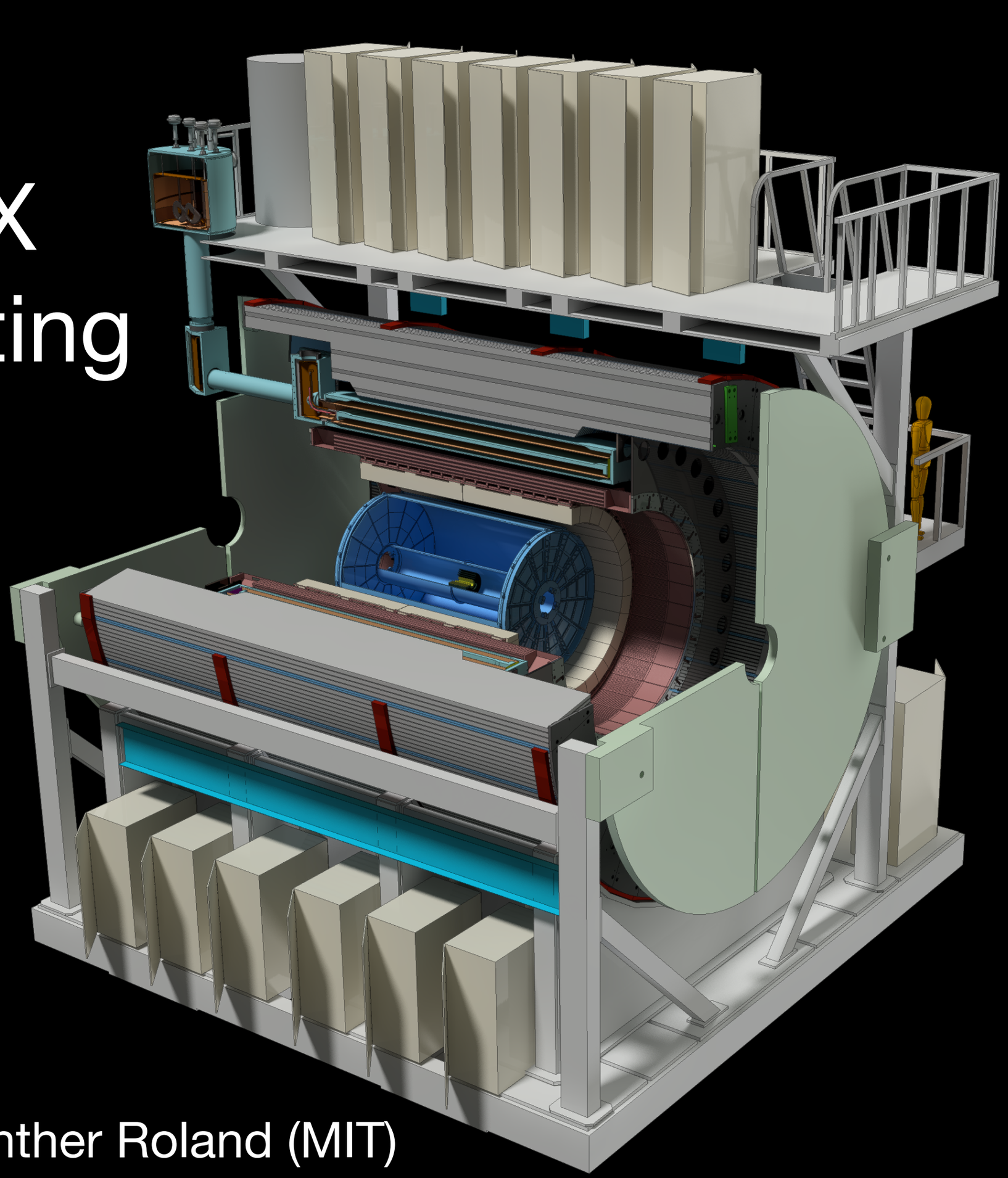
20th sPHENIX General Meeting



Dave Morrison (BNL), Gunther Roland (MIT)


KEEP
CALM
AND
VOLUNTEER
(to take minutes for today's meeting)

Plan for today (busy!)

Friday, 27 January 2017

12:00 - 12:15	sPHENIX News *15'* Speakers: Dr. David Morrison (BNL), Prof. Gunther Roland (MIT)	
12:15 - 12:30	Project update *15'* Speaker: Edward O'Brien (BNL)	
12:30 - 12:50	HF flavor plots for QM and pre-proposal *20'* Speaker: Dr. Haiwang Yu (New Mexico State University)	
12:50 - 13:05	Jet substructure plots for QM *15'* Speakers: Prof. Dennis Perepelitsa (University of Colorado Boulder), Dr. Rosi Reed (Lehigh University)	
13:05 - 13:15	Quarkonia plots for QM *10'* Speakers: Prof. Marzia Rosati (Iowa State University), Dr. Anthony Frawley (Florida State University)	
13:15 - 13:30	Test beam plots for QM *15'* Speaker: Megan Connors (Georgia State University RBRC)	
13:30 - 14:00	sPHENIX QM talk rehearsal *30'* Speaker: Megan Connors (Georgia State University RBRC)	

Quark Matter 2017

Design, status and schedule of the sPHENIX experiment at RHIC

8 Feb 2017, 09:50
20m
Regency D ()

Oral | Future Experimental F... | Parallel Session 5.4

Speaker

Megan Elizabeth Connors (Yale University (US))

Description

The 2015 US Nuclear Physics Long Range Plan calls for a state-of-the-art jet and upsilon detector at RHIC, called sPHENIX, to study the microscopic nature of the QGP, complementing similar studies at the CERN LHC. The sPHENIX detector will provide precision vertexing, tracking and full calorimetry over pseudorapidity |eta| < 1.1 and full azimuth at the full RHIC collision rate, delivering unprecedented data sets for jet and upsilon measurements at RHIC. This will enable the three pillars of the sPHENIX physics program, i.e.,
studies of jet structure modifications, measurements of heavy-flavor tagged jet production and precision upsilon spectroscopy. In this talk we will present an overview of the sPHENIX detector design, expected construction and running schedule and planned physics program.

Preferred Track Future Experimental Facilities, Upgrades, and Instrumentation
Collaboration sPHENIX

Primary author

Megan Elizabeth Connors (Yale University (US))

Time to update your profile!

Presentation Materials

There are no materials yet.

Practice talk today!

WBS 1.2 Tom Hemmick
- sPHENIX Tracking Performance Simulations, Veronica Canoa (SBU)
http://indico.cern.ch/event/433345/contributions/2358221/

- sPHENIX TPC mechanical design, Klaus Dehmelt (SBU)
http://indico.cern.ch/event/433345/contributions/2358224/

- R&D Studies for the sPHENIX Time Projection Chamber, Prakhar Garg (SBU)
http://indico.cern.ch/event/433345/contributions/2358223/

- Design of the sPHENIX tracker, Sourav Tarafdar (VU)
http://indico.cern.ch/event/433345/contributions/2358220/

- Front End Readout for the sPHENIX Time projection chamber, Takao Sakaguchi (BNL)
http://indico.cern.ch/event/433345/contributions/2358230/

WBS 1.4 Craig Woody
- Test Beam Performance of the sPHENIX EMCal Prototype, Virginia Bailey (UIUC)
http://indico.cern.ch/event/433345/contributions/2358225/

WBS 1.5 John Lajoie
- A Prototype of the sPHENIX Hadronic Calorimeter, Abhisek Sen (ISU)
http://indico.cern.ch/event/433345/contributions/2358227/

- Construction and testing of the sPHENIX hadronic calorimeter prototype, Jamie Nagle (Colorado)
http://indico.cern.ch/event/433345/contributions/2358226/

- Design and test-beam performance of the sPHENIX calorimeter system, Jin Huang (BNL)
http://indico.cern.ch/event/433345/contributions/2374660/

WBS 1.6 Eric Mannel
- A Common Readout System for the sPHENIX Electromagnetic and Hadronic Calorimeters, Eric Mannel (BNL)
http://indico.cern.ch/event/433345/contributions/2358229/

WBS 1.7 Martin Purschke
- The Readout and Data Acquisition Design of the sPHENIX Detector at RHIC, Martin Purschke (BNL)
http://indico.cern.ch/event/433345/contributions/2358228/

relevant L2 manager or TG convener will approve posters
GR/DM will collect posters (Indico)

MAPS Ming Liu
- R&D for the sPHENIX MAPS inner tracker, Ming Liu (LANL)

- Identification of heavy-flavor jets in sPHENIX using MAPS, Cesar da Silva (LANL)
http://indico.cern.ch/event/433345/contributions/2358217/

INTT Itaru Nakagawa
- The intermediate tracking system of the sPHENIX detector at RHIC, Gaku Mitsuka (RBRC)
http://indico.cern.ch/event/433345/contributions/2374661/

Cold QCD TG (Nils Feege, Christine Aidala)
- Studying Proton Structure, the Partonic Structure of Nuclei, and Hadronization at sPHENIX, Chong Kim (UCR)
http://indico.cern.ch/event/433345/contributions/2358231/

Upsilon spectroscopy TG (Marzia Rosati, Tony Frawley)
- Modification of Upsilon production in nuclear collisions measured with sPHENIX, Krista Smith (FSU)
http://indico.cern.ch/event/433345/contributions/2358218/

Jet structure TG (Rosi Reed, Dennis Perepelitsa)
- Jet spectra and jet structure measurements with sPHENIX, Rosi Reed (Lehigh)
http://indico.cern.ch/event/433345/contributions/2358219/

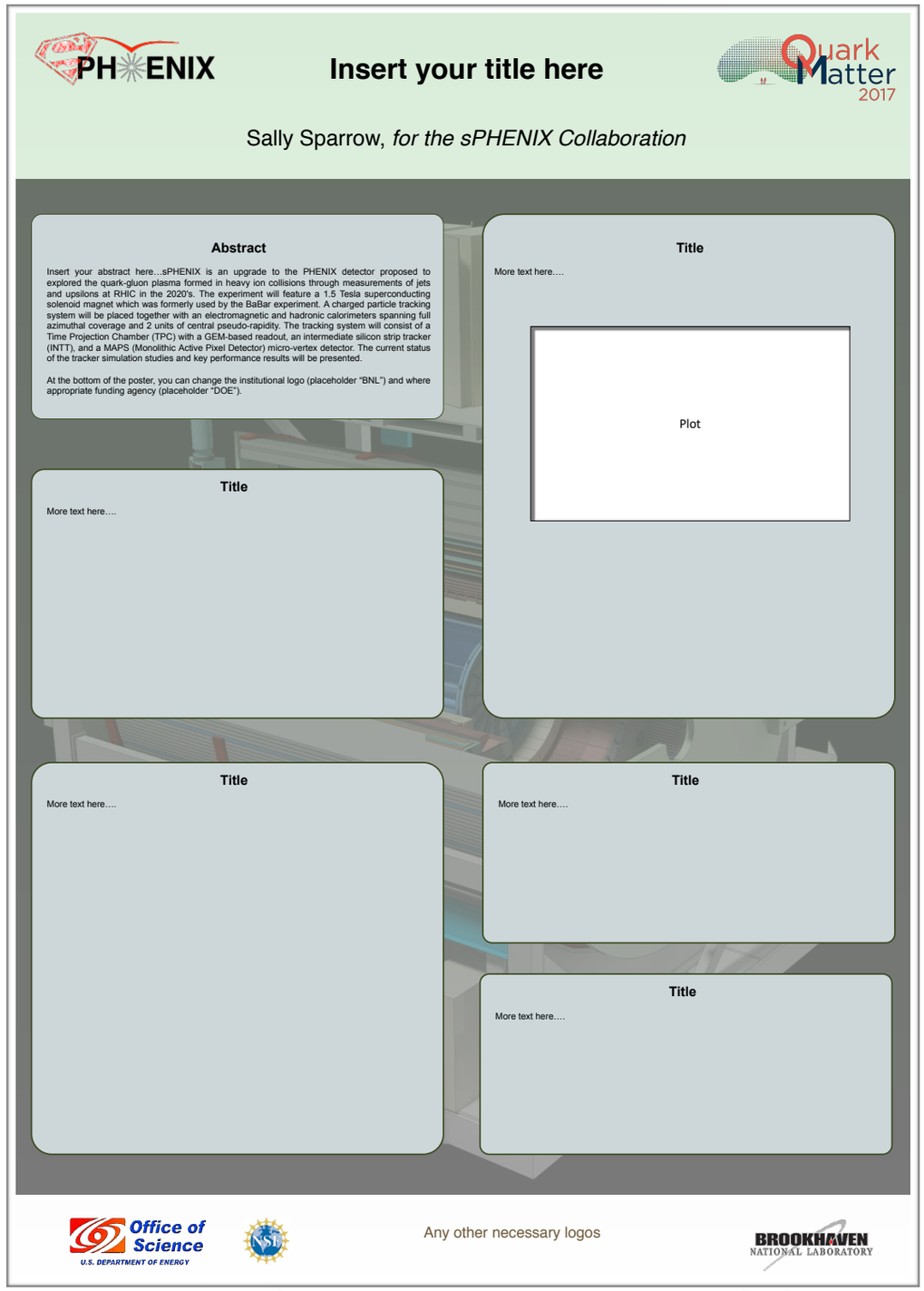
Heavy flavor jet TG (Jin Huang, Mike McCumber)
- B-Jet Tagging Algorithms for sPHENIX at RHIC, Haiwang Yu (NMSU)
http://indico.cern.ch/event/433345/contributions/2358232/

sPHENIX sTYLE?

Thanks to Rosi, again!

“Green” won

Ask poster presenters to start from this templates. Tweaks and improvements are fine, but ideally **sPHENIX-style** should be recognizable



https://www.dropbox.com/s/jwh1ujvw9g5tvwe/sPhenix_QM17poster_template_nf2_green_v2.pptx?dl=0

Discussions with the ALD

- Ongoing preparations at BNL (and other DOE labs) for DOE budget briefing

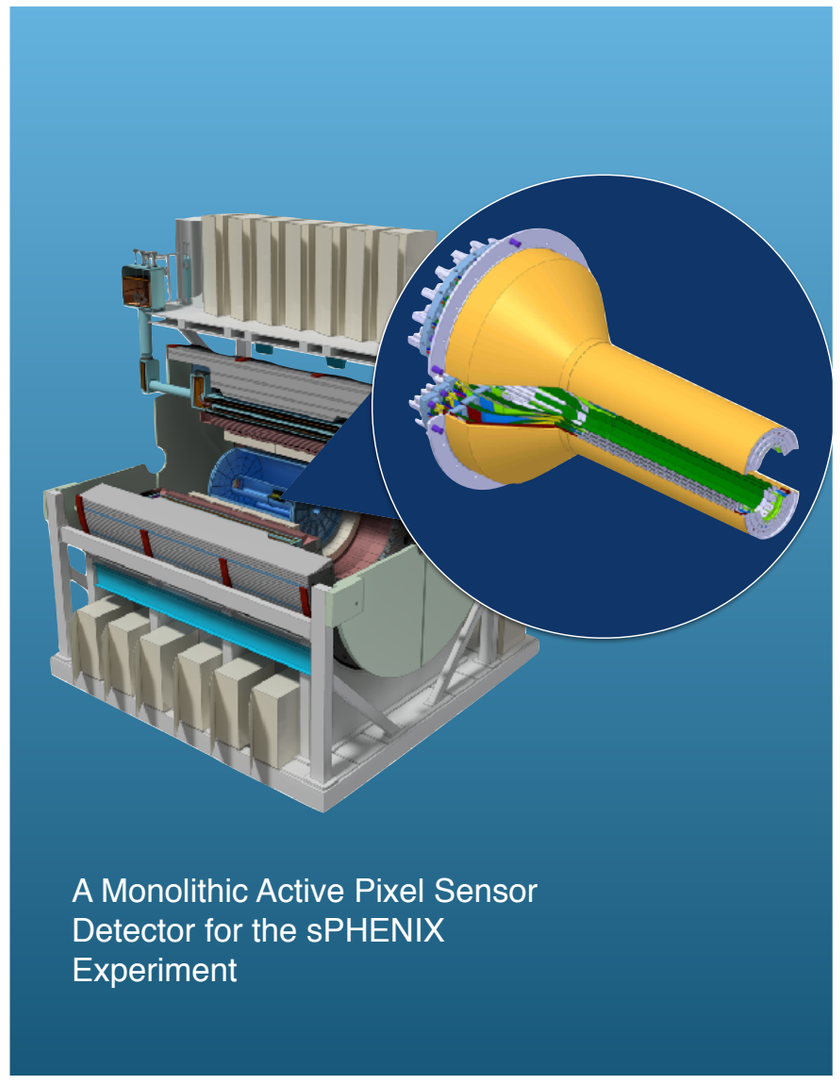
- As usual, response to spectrum of possible funding scenarios

- We are closely monitoring statements/consequences for sPHENIX timeline in various scenarios

- As things evolve, we may consult with EC for advice

Report from MAPS workfest at LBNL (1/24-1/25)

- 30 attendees, hosted by LBNL (thanks!)
- Working to finalize MAPS pre-proposal for Labs' budget briefings with DOE, freeze draft next week
  - Significant progress on project file – scope complete with defensible numbers drawn from ALICE ITS experience
  - Many updates to figures, writing and simulations
- Assigned commenters for each section due by Monday



snapshot v1.0: https://www.phenix.bnl.gov/WWW/publish/mxliu/sPHENIX/MVTX/MVTX-Proposal-v1.0-01252017.pdf
overleaf page: https://www.overleaf.com/7090105wwsnqpczbwgg#/24371124/